

ABSTRACT OF THE DISCLOSURE

A device for detecting the marginal edge or a marking of a material web. The device contains an optical sensor and two light sources associated with the optical sensor. The first light source emits directed light beams and aims such beams at the material web. The first light source is formed by a plurality of light-emitting diodes, arranged such that the light reflected by the material web in a diffused manner cannot be detected by the optical sensor. A second light source is also associated with the optical sensor. The second light source contains a diffuser disk. The diffuser disk generates diffused light that is emitted in all three-dimensional directions. When the second light source is active, the condition of reflection is satisfied so that it is possible to scan the material web having mirror-like reflection.

PROBLEMS SOLVED